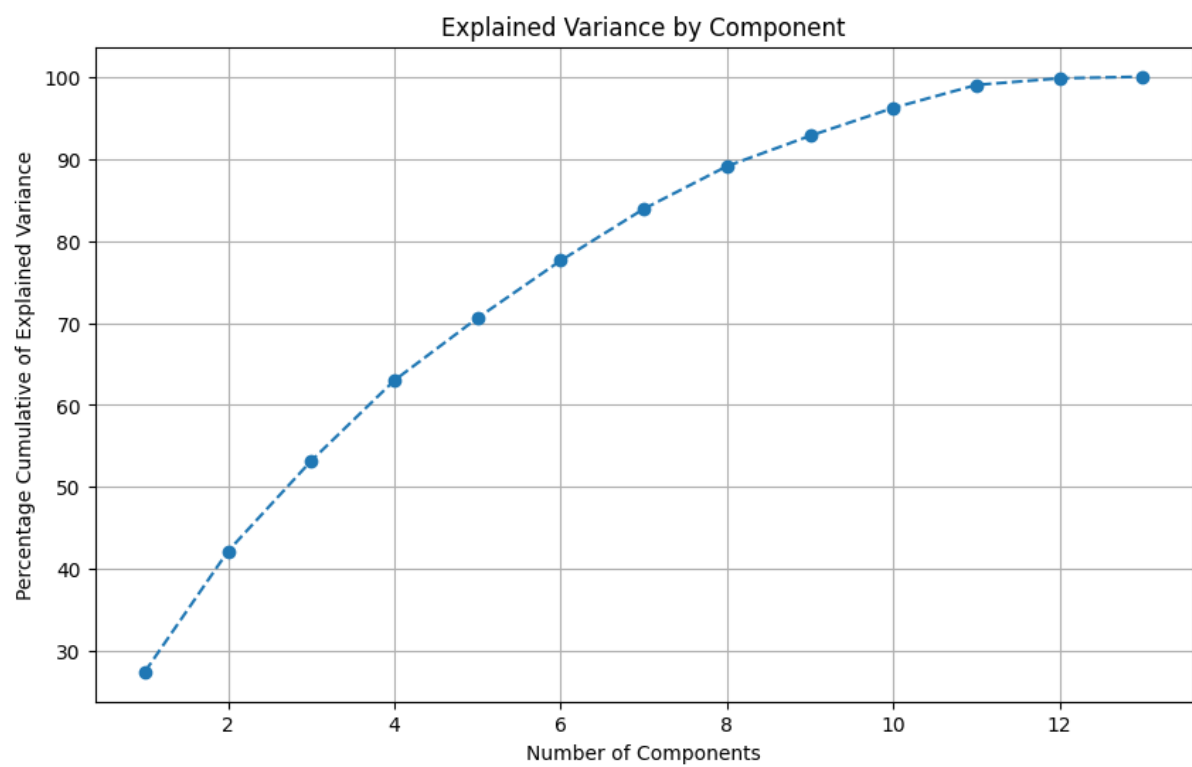
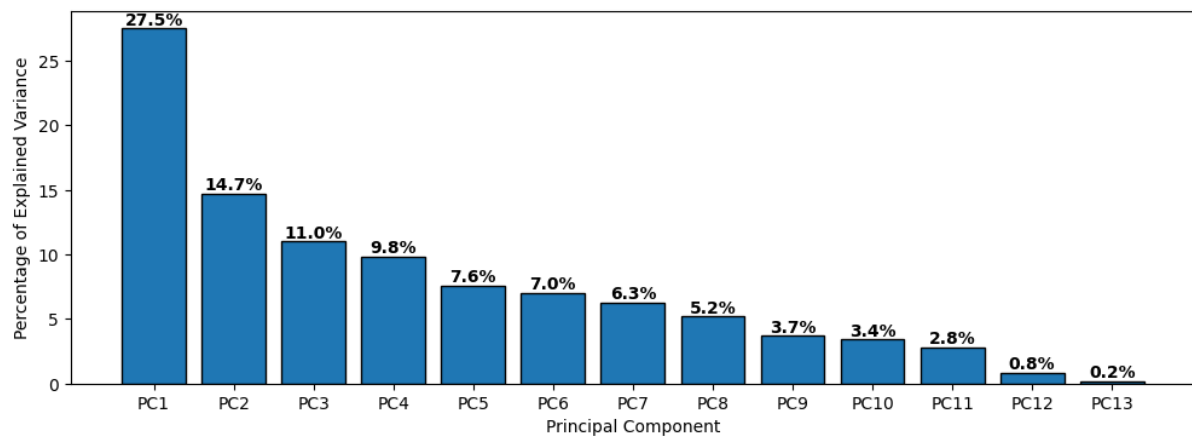
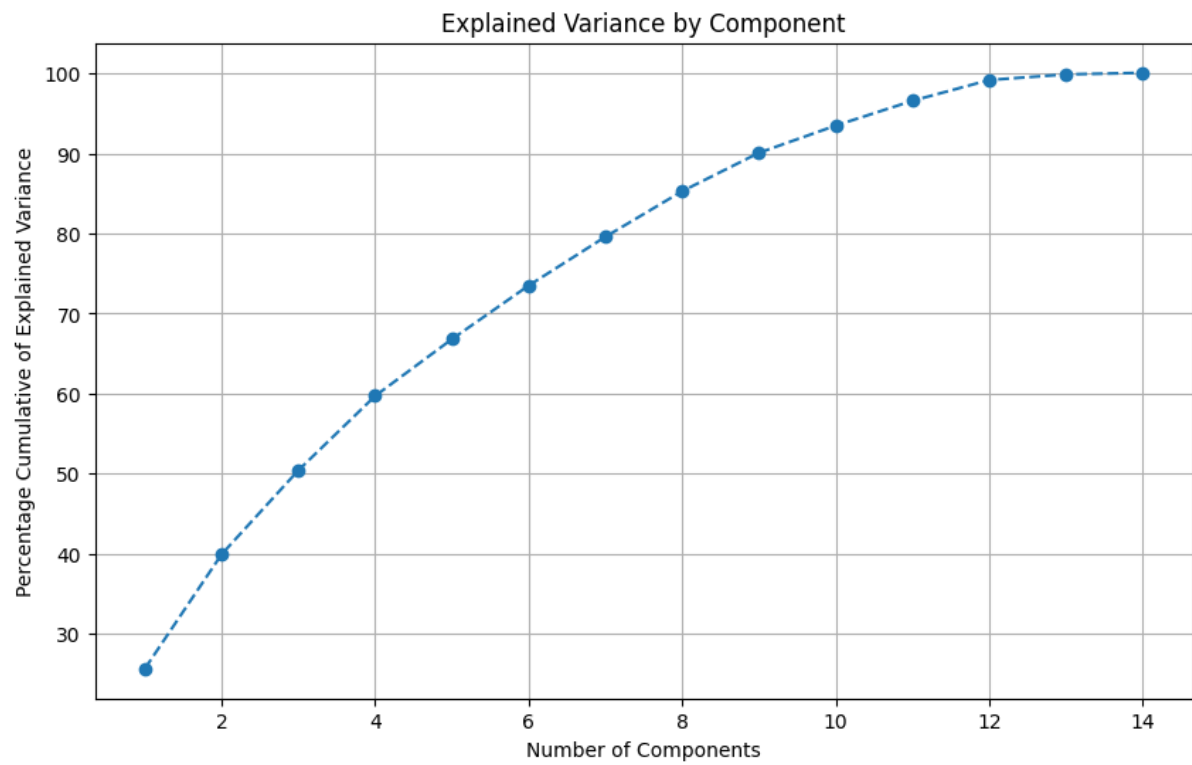
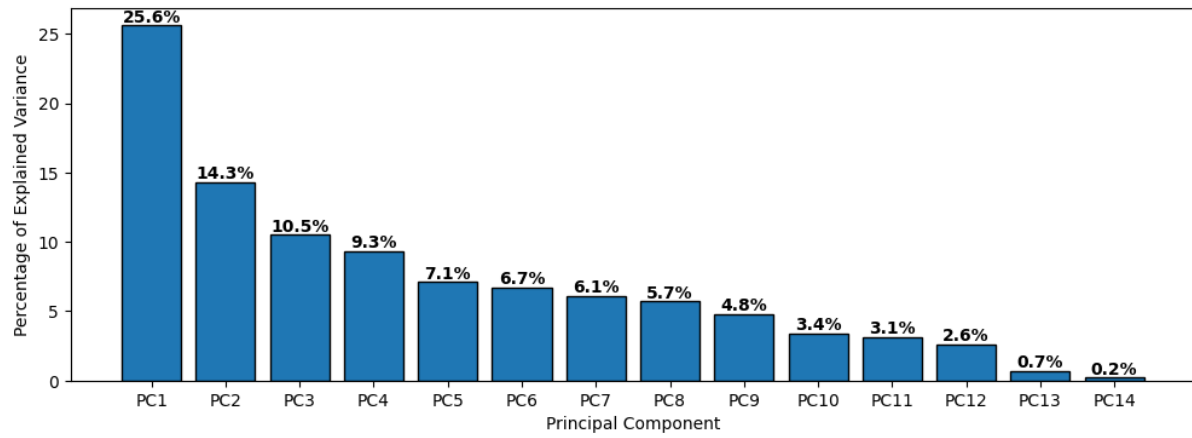


# 1. PCA Results

## a. Without unit type



## b. With unit type



## 2. CALCULATIONS

### A. Without unit\_type

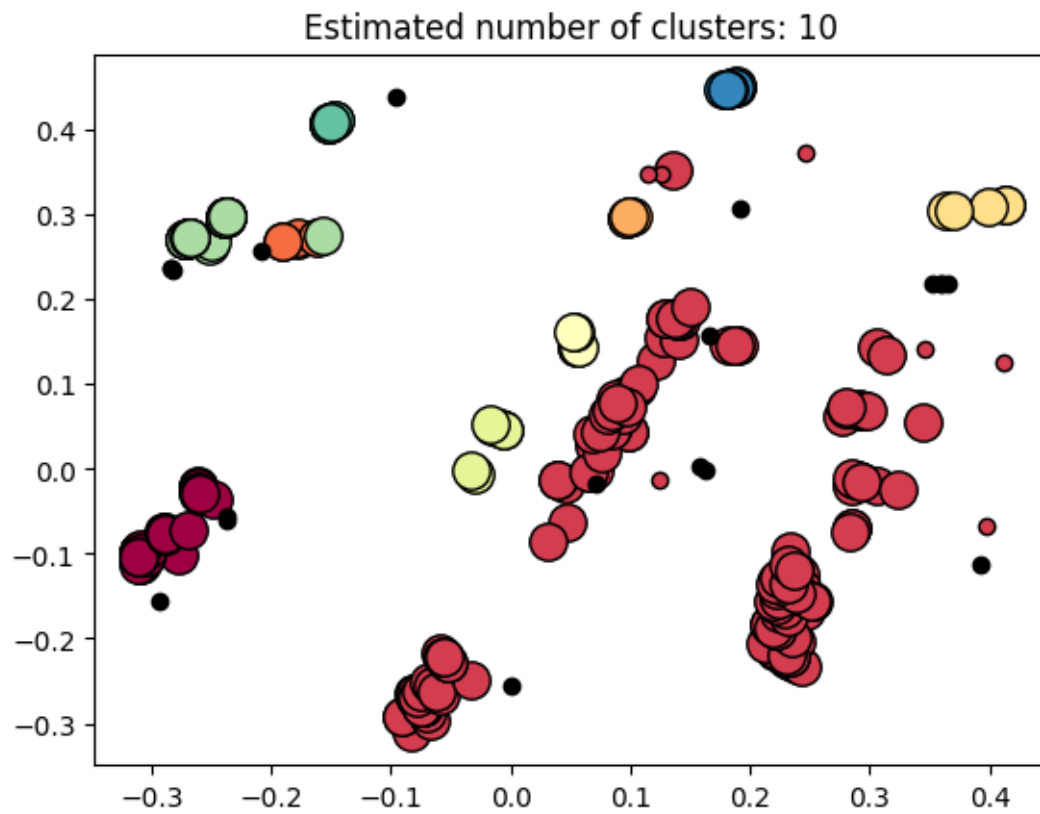
#### I. 7 Components ~85% explained variance

eps = 0.36, min\_samples = 5

Clusters = 10

Outliers = 19

		0
PC1	[tv, building_staff, ac, wifi, breakfast]	
PC2	[pool, building_staff, breakfast, area_name, tv]	
PC3	[building_staff, pool, tv, area_name, wifi]	
PC4	[breakfast, area_name, pool, ac, bathroom]	
PC5	[area_name, breakfast, bedroom, bathroom, buil...]	
PC6	[parking, wifi, breakfast, ac, bathroom]	
PC7	[ac, overall_rating, wifi, parking, tv]	



segment

Cluster 2 177

Cluster 1 63

Cluster 8 29

Cluster 10 9

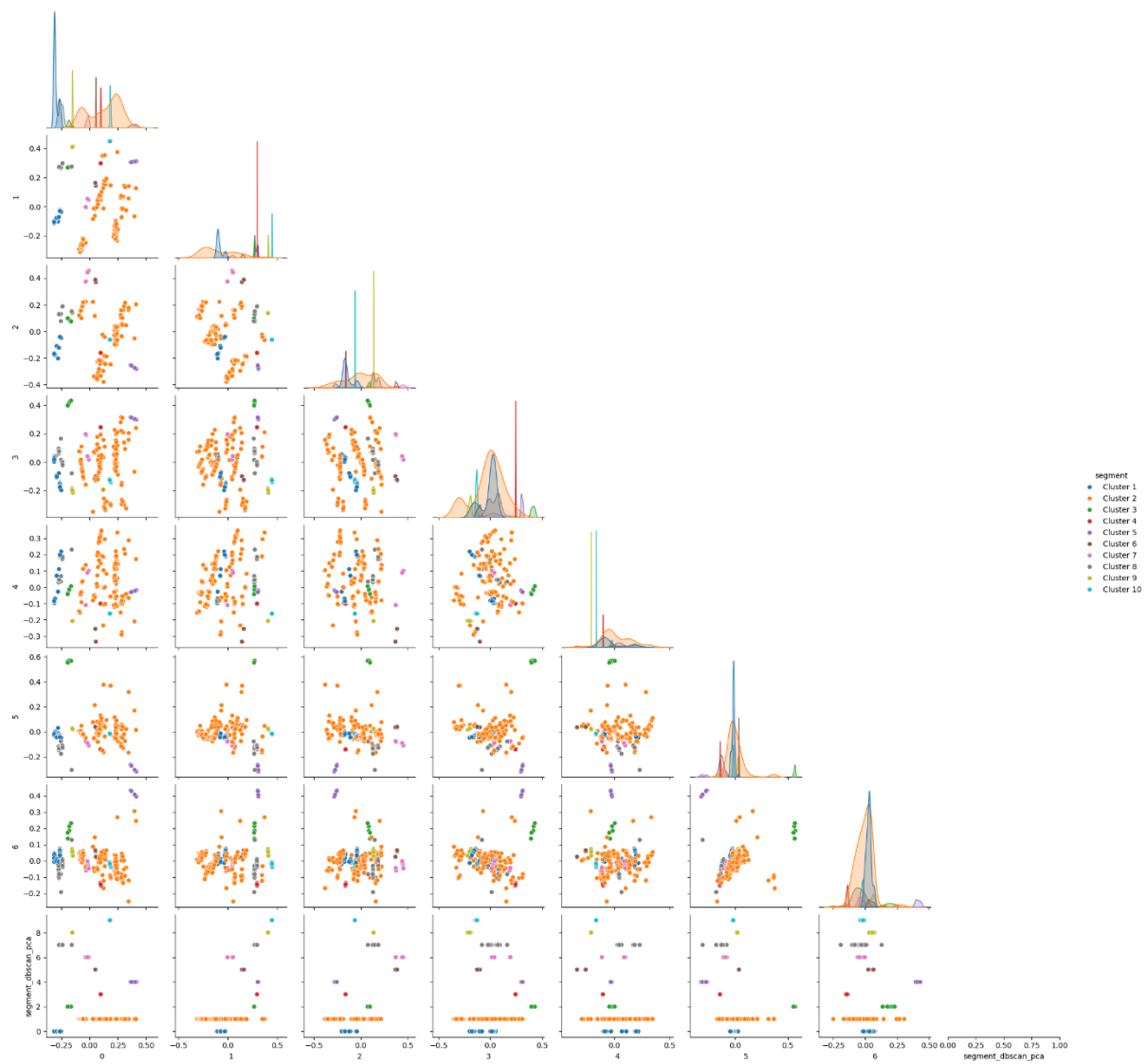
Cluster 7 7

Cluster 9 7

Cluster 3 5

Cluster 4 5

Cluster 5 5



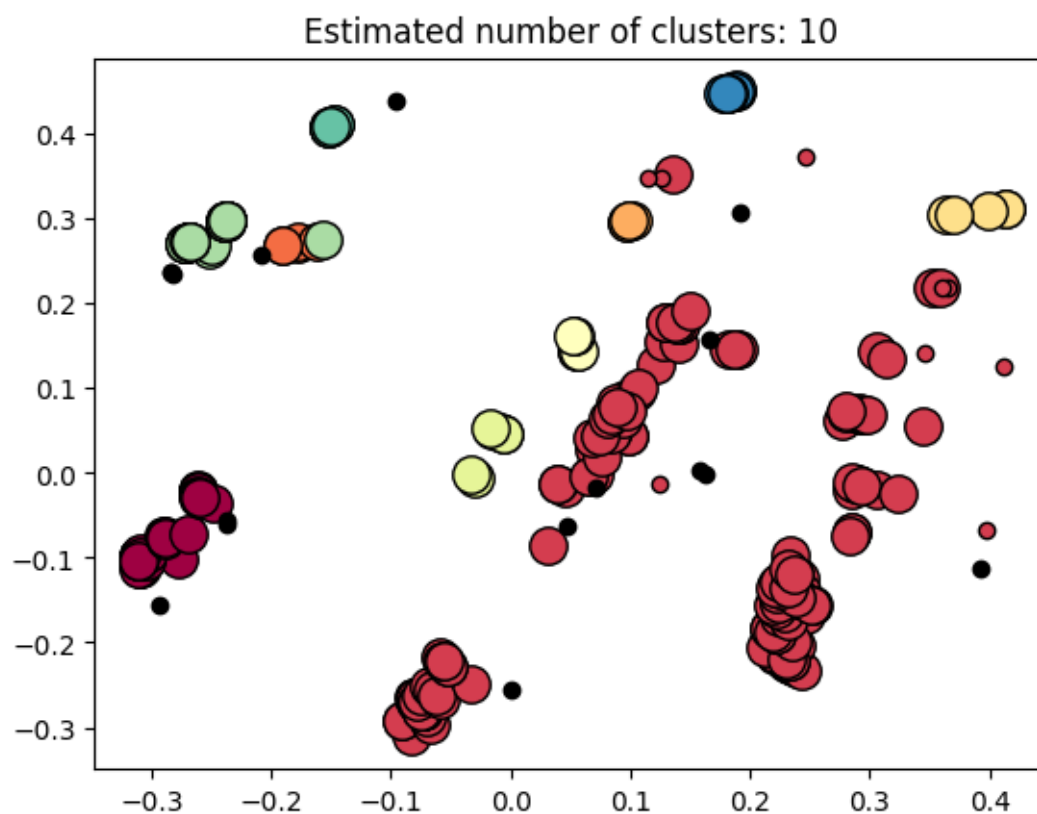
## II. 8 Components ~90% explained variance

eps = 0.38, min\_samples = 5

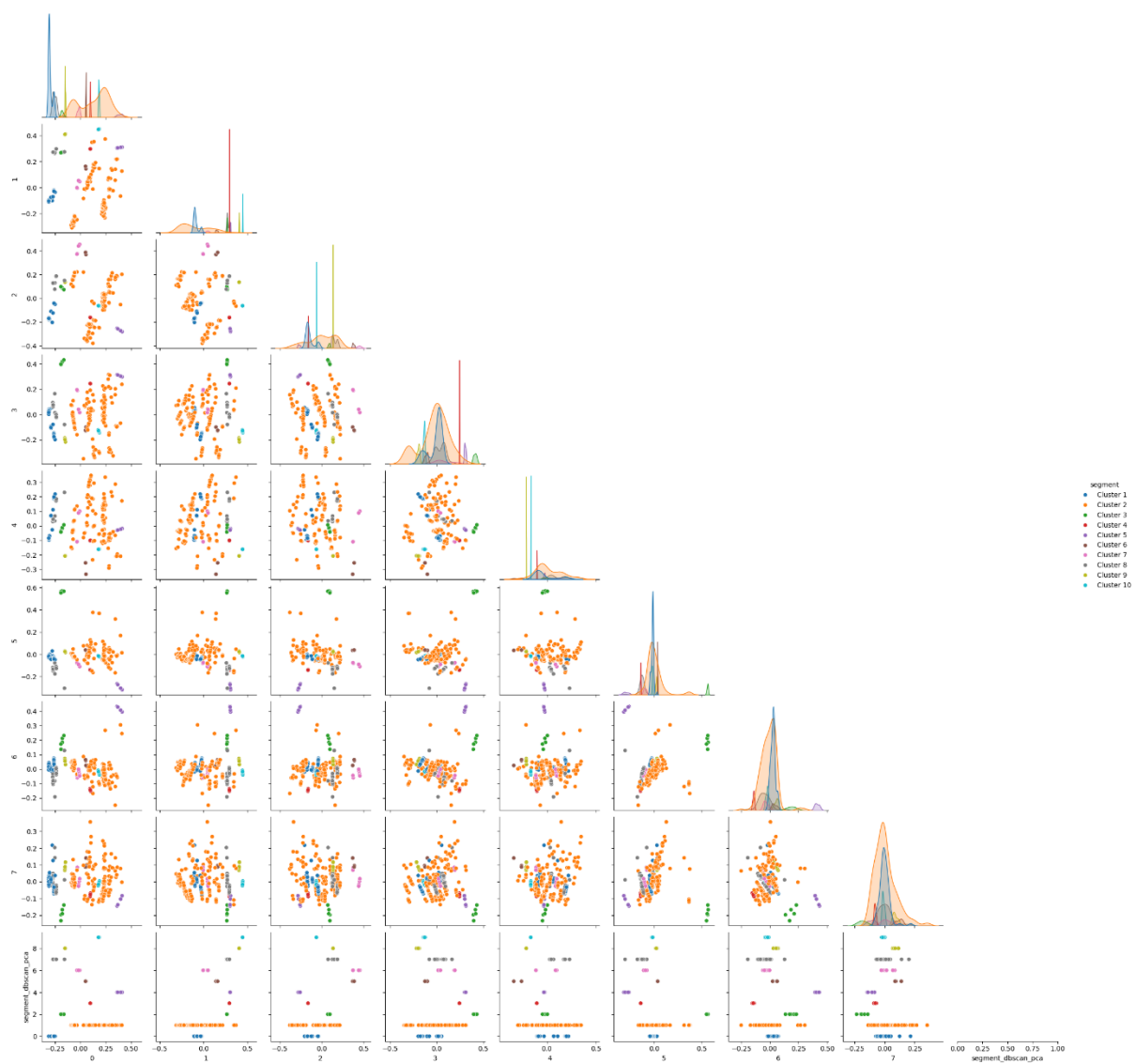
Clusters = 10

Outliers = 16

PC1	[tv, building_staff, ac, wifi, breakfast]
PC2	[pool, building_staff, breakfast, area_name, tv]
PC3	[building_staff, pool, tv, area_name, wifi]
PC4	[breakfast, area_name, pool, ac, bathroom]
PC5	[area_name, breakfast, bedroom, bathroom, buil...]
PC6	[parking, wifi, breakfast, ac, bathroom]
PC7	[ac, overall_rating, wifi, parking, tv]
PC8	[bedroom, beds, bathroom, overall_rating, park...]



Cluster 6 5



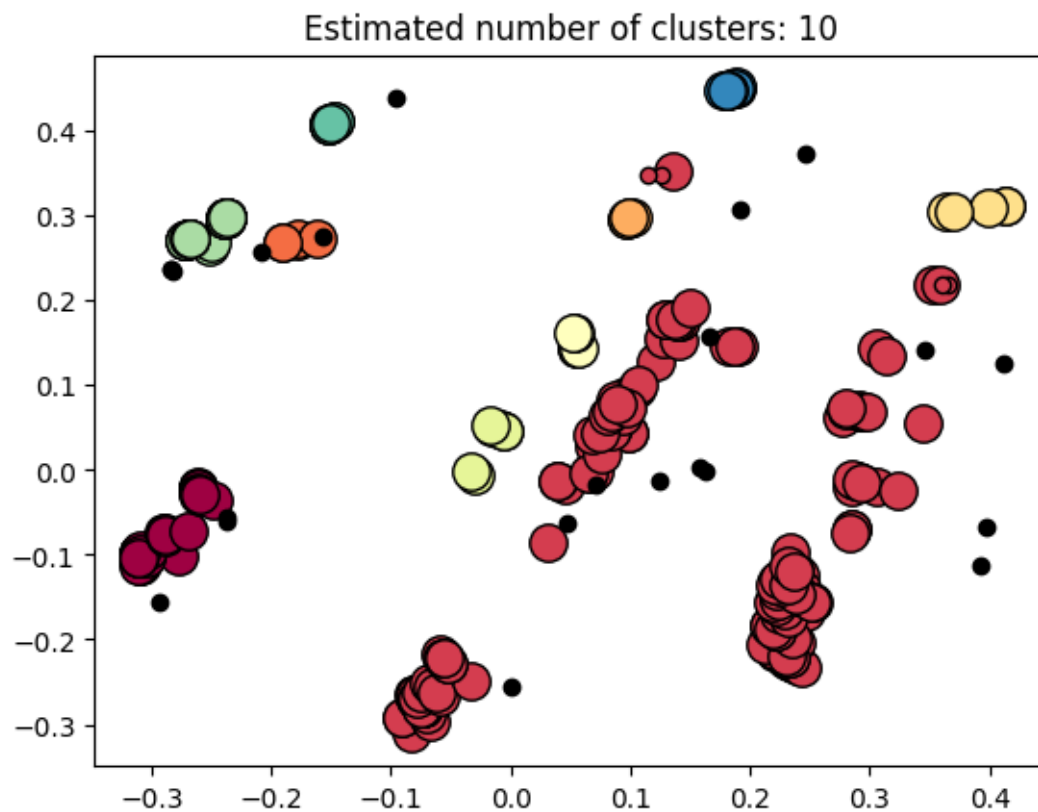
### III. 9 Components ~95% explained variance

eps = 0.38, min\_samples = 5

Clusters = 10

Outliers = 22

<b>PC1</b>	[tv, building_staff, ac, wifi, breakfast]
<b>PC2</b>	[pool, building_staff, breakfast, area_name, tv]
<b>PC3</b>	[building_staff, pool, tv, area_name, wifi]
<b>PC4</b>	[breakfast, area_name, pool, ac, bathroom]
<b>PC5</b>	[area_name, breakfast, bedroom, bathroom, buil...
<b>PC6</b>	[parking, wifi, breakfast, ac, bathroom]
<b>PC7</b>	[ac, overall_rating, wifi, parking, tv]
<b>PC8</b>	[bedroom, beds, bathroom, overall_rating, park...
<b>PC9</b>	[wifi, overall_rating, ac, parking, bedroom]





Cluster 2 175

Cluster 1 63

Cluster 8 28

Cluster 10 9

Cluster 7 7

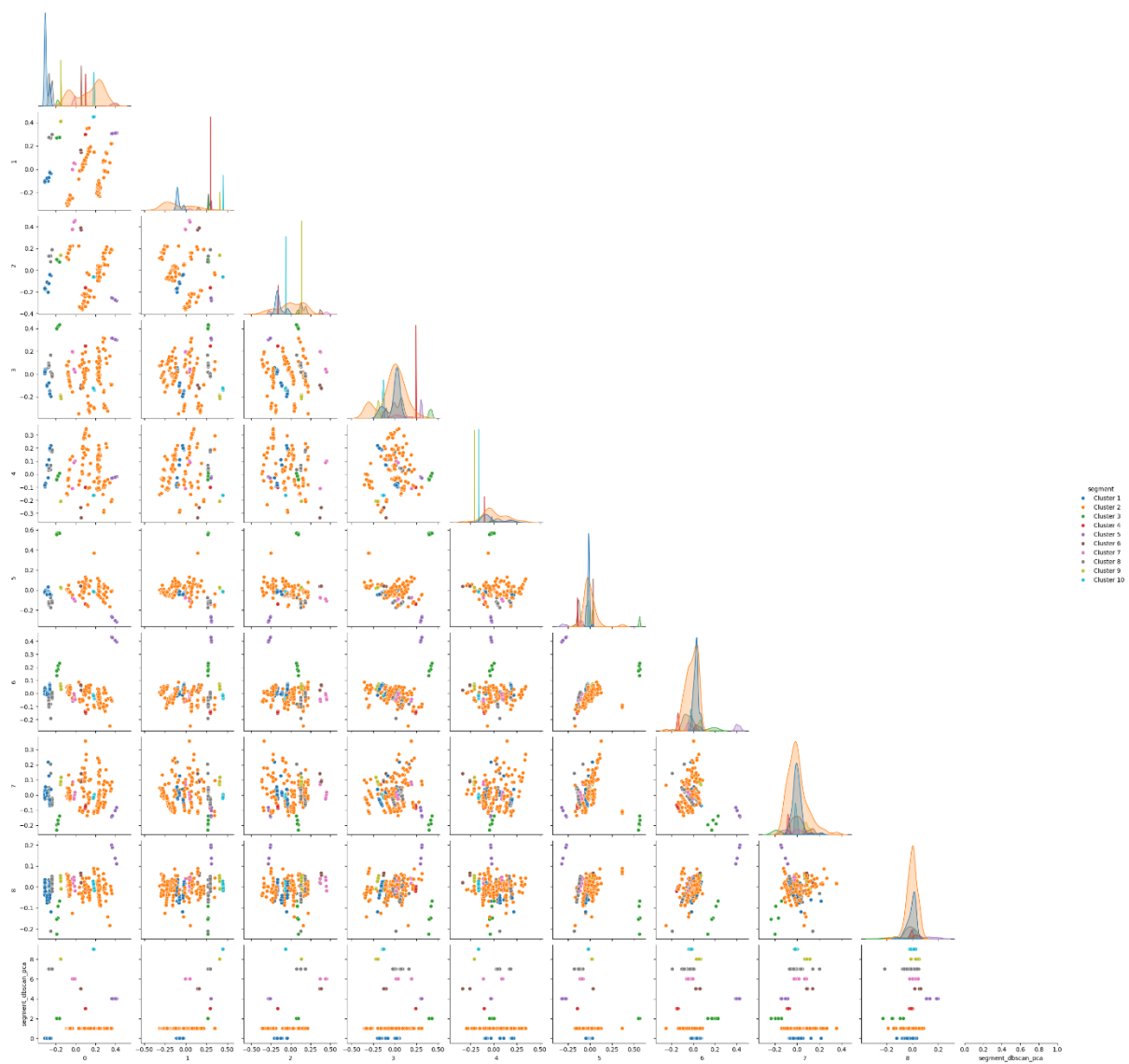
Cluster 9 7

Cluster 3 5

Cluster 4 5

Cluster 5 5

Cluster 6 5



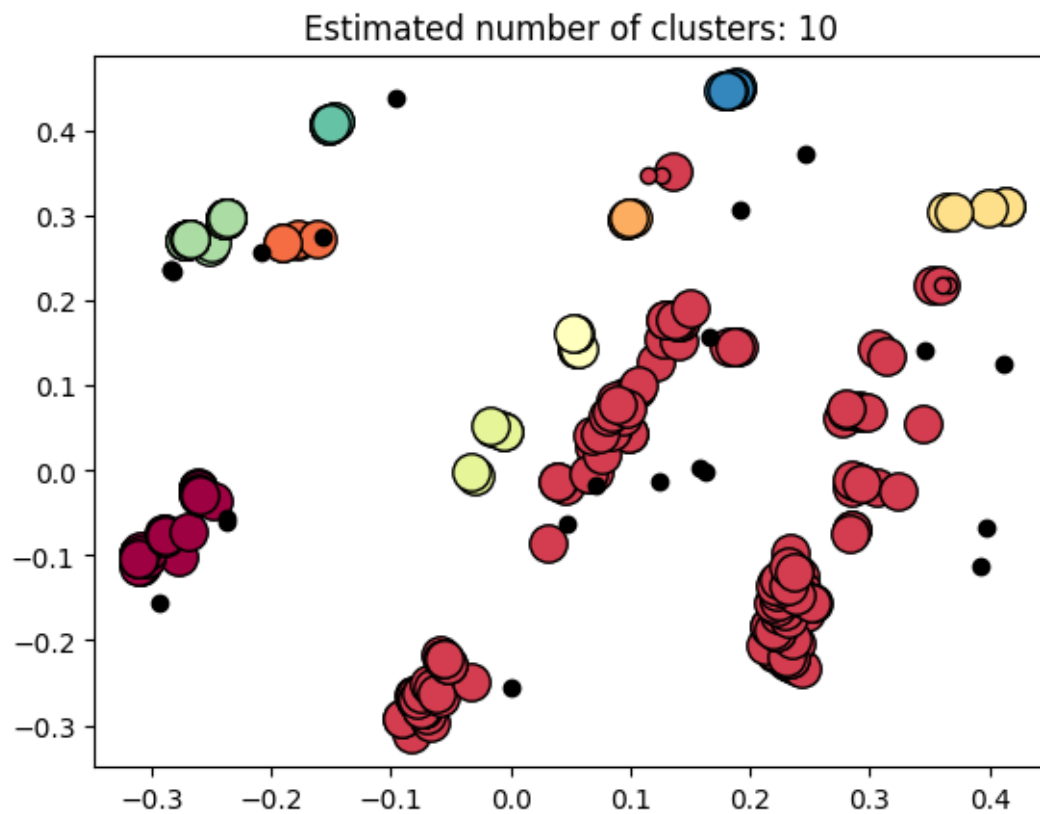
## B. With unit\_type

### I. 7 Components ~80% explained variance

eps = 0.36, min\_samples = 5

Clusters = 10

Outliers = 13



Cluster 2 175

Cluster 1 63

Cluster 8 28

Cluster 10 9

Cluster 7 7

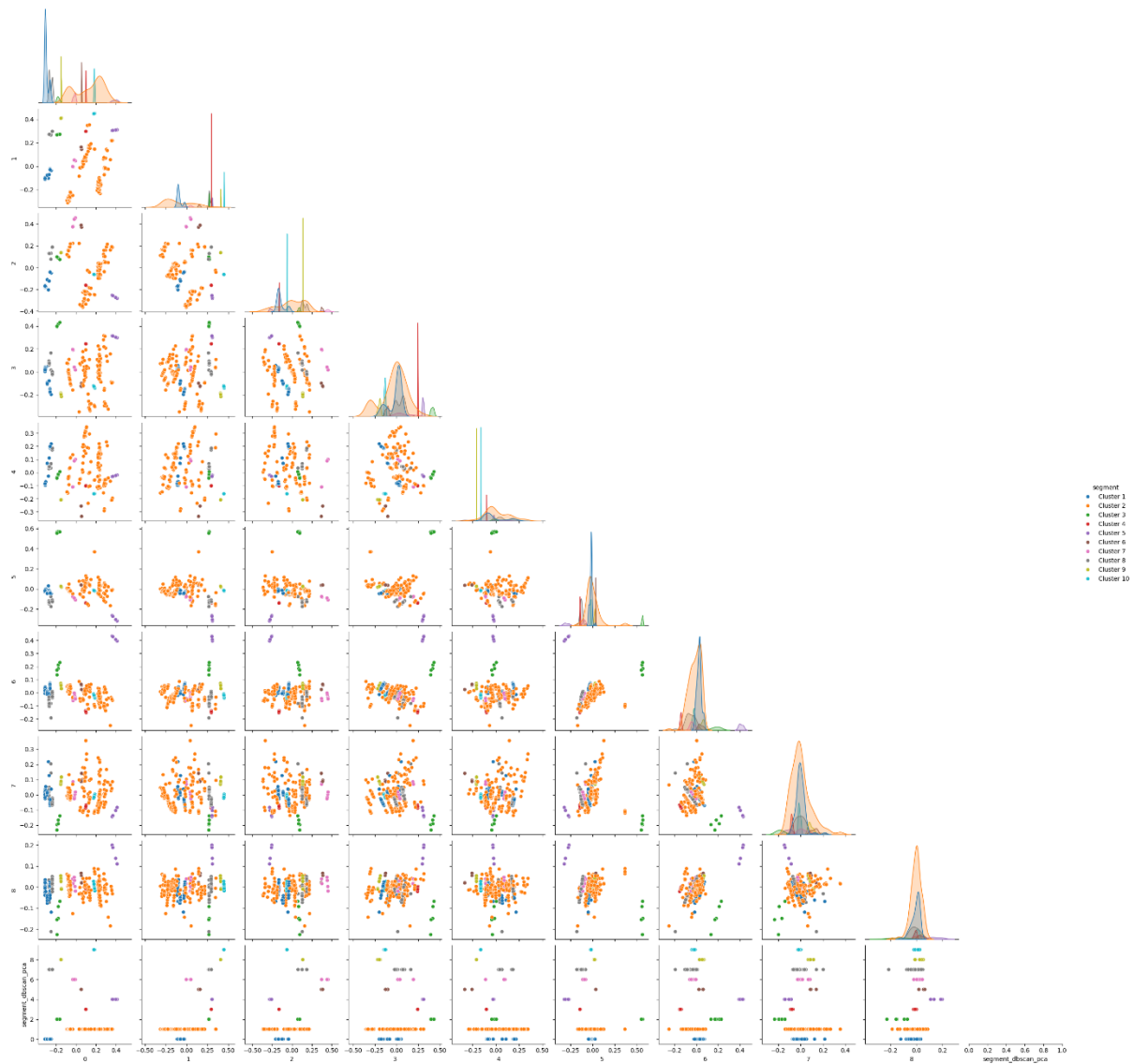
Cluster 9 7

Cluster 3 5

Cluster 4 5

Cluster 5 5

Cluster 6      5

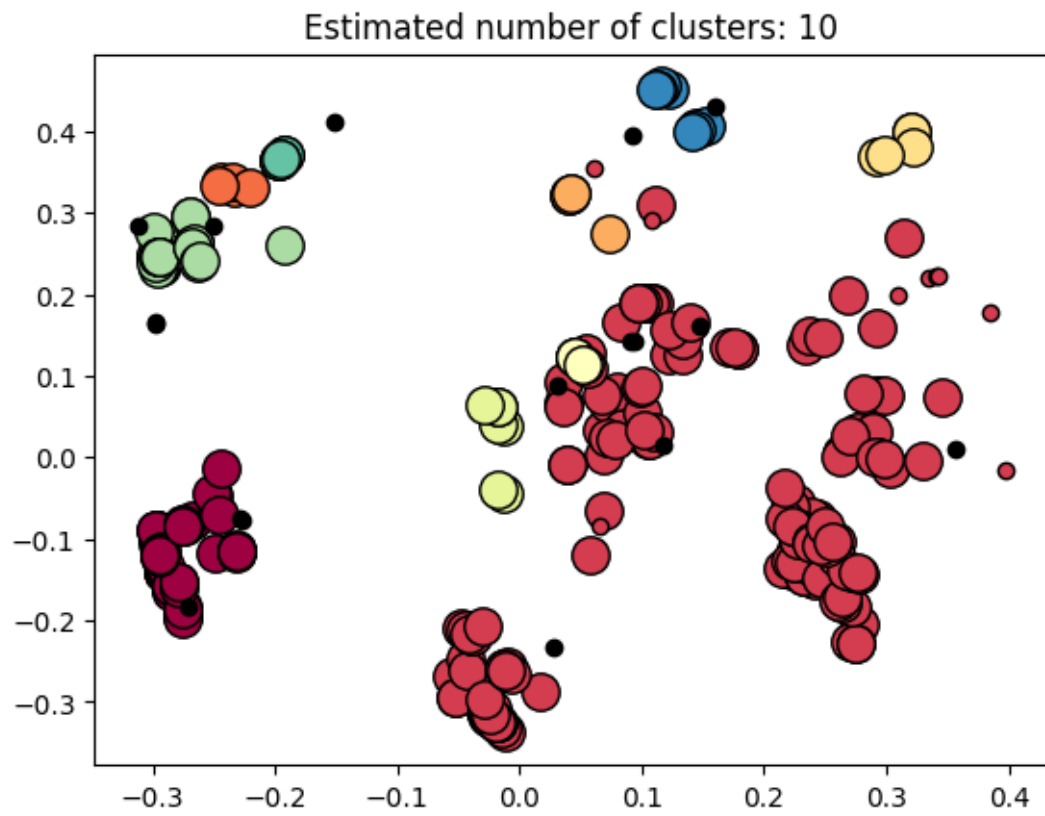


II. 8 Components ~85% explained variance

eps = 0.37, min\_samples = 5

Clusters = 10

Outliers = 17



Cluster 2 179

Cluster 1 63

Cluster 8 29

Cluster 10 9

Cluster 7 7

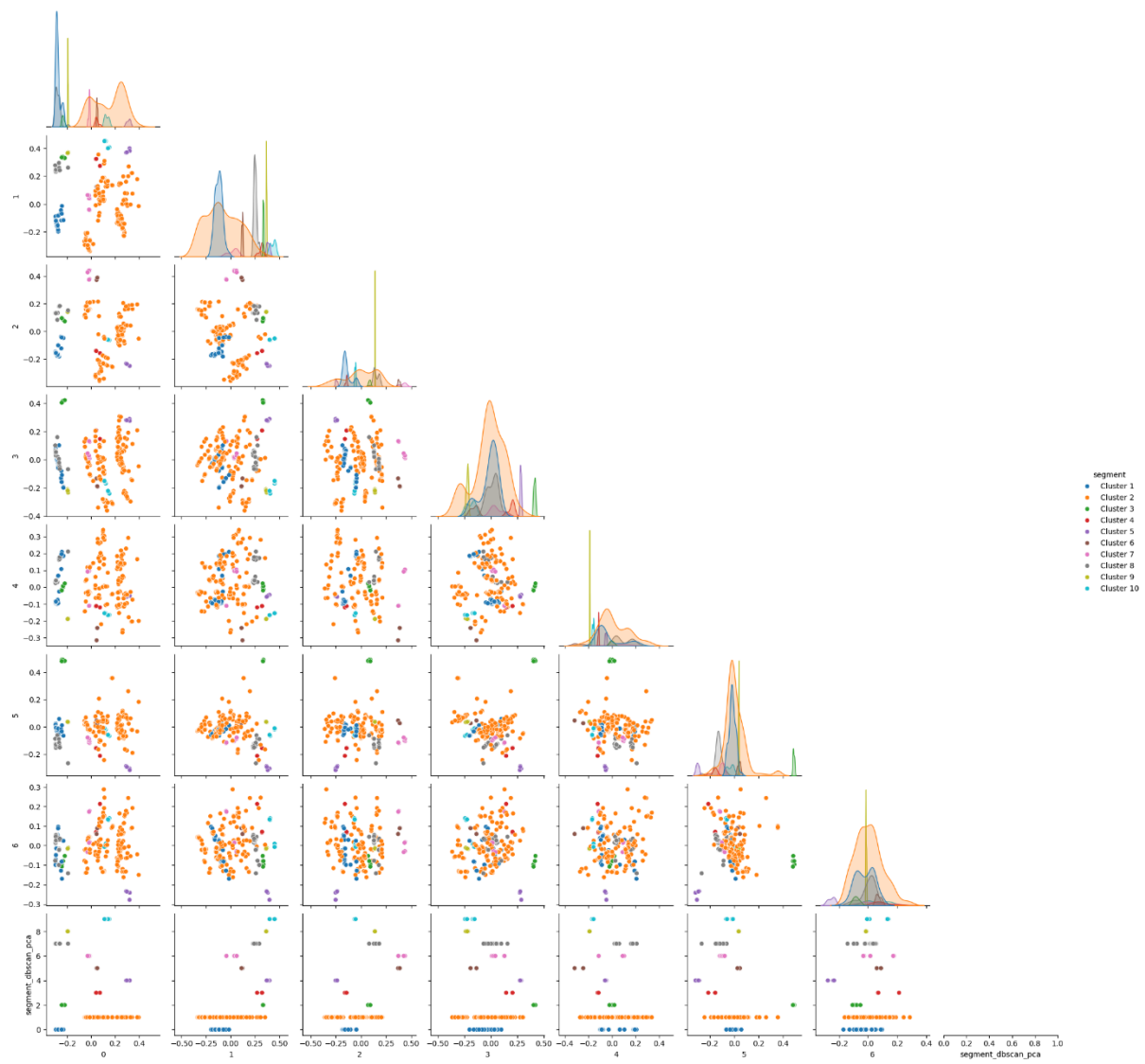
Cluster 9 7

Cluster 3 5

Cluster 4 5

Cluster 5 5

Cluster 6 5

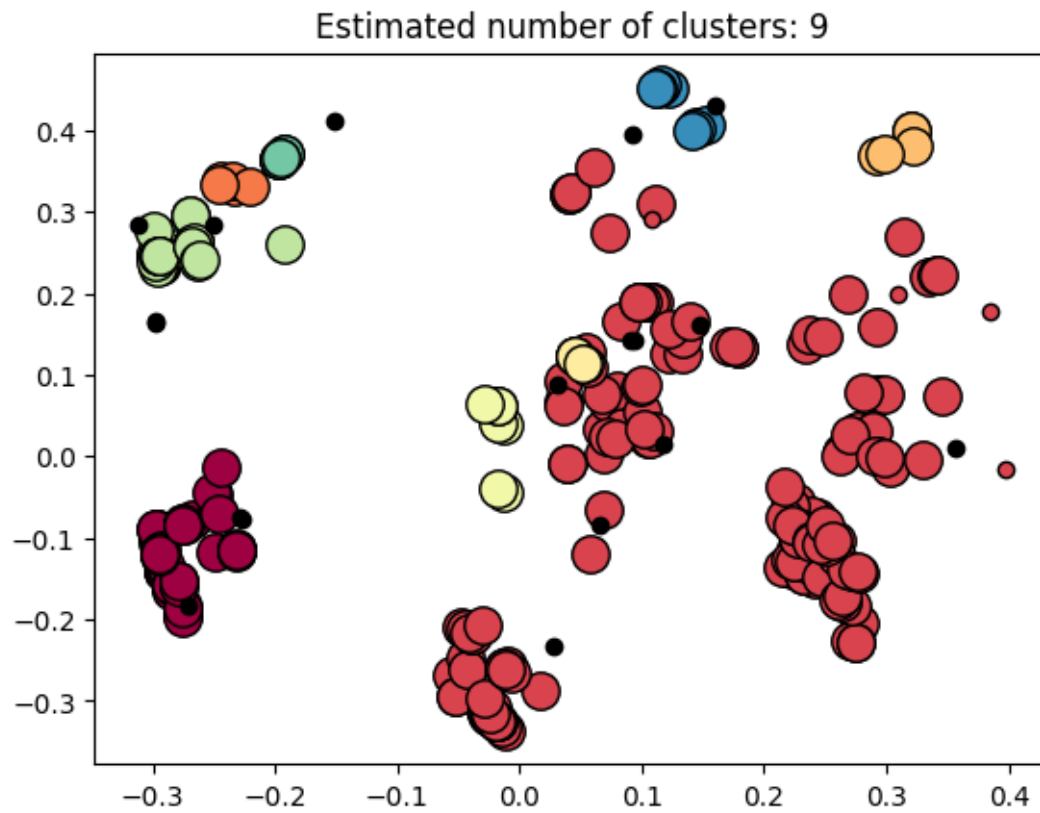


### III. 9 Components ~90% explained variance

eps = 0.38, min\_samples = 5

Clusters = 9

Outliers = 18



Cluster 2 183

Cluster 1 63

Cluster 7 29

Cluster 9 9

Cluster 6 7

Cluster 8 7

Cluster 3 5

Cluster 4 5

Cluster 5 5

